AB-PP531

PTEN-pY315 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTEN. This phosphotyrosine-site antibody also weakly cross-reacts with phosphothreonine and phosphoserine substitutions of the phosphosite.

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Target Protein

Protein Name Long:	Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and protein phosphatase and tensin homologue deleted on chromosome 10
Protein Alias:	BZS; MHAM; MMAC1; Mutated in multiple advanced cancers 1; Phosphatase and tensin; Phosphatase and tensin homolog gene; Protein-tyrosine phosphatase PTEN; PTEN1; TEP1
UniProt ID:	P60484
Protein Molecular Mass:	47,166 Da (403 AA; P60484-1); 64,882 Da (576 AA; P60484-2); 19,796 Da (175 AA; P60484-3)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTEN
Antibody Immunogen Sequence:	DKE(pY)LVL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues D312 to L318. PTEN Y315 phosphorylation stimulates phosphatase activity and regulates cell growth. This is one of the minor sites of *in vivo* phosphorylation of PTEN based on ≥1 mass spectrometry report recorded in PhosphoSitePlus. PTEN is known to be phosphorylated at this site *in vitro* by Lck, and Src.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.6 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Rhesus macaque | Rat | Mouse | Platypus | Frog

This product is for *in vitro* research use only and is not intended for use in humans or animals.